Amendments to the Claims

Claims 1-59. (Cancelled)

Claim 60. (Original) A composition of matter comprising:

- (a) a plurality of nucleic acid molecules capable of detecting altered expression due to exposure to ultraviolet radiation, the nucleic acid molecules being selected from the groups consisting of:
- (i) a first response group comprising altered expression of at least one nucleic acid molecule encoding a transcription factor protein, at least one nucleic acid molecule encoding a signal transducing protein, and at least one nucleic acid molecule encoding a mitochondrial protein;
- (ii) a second response group comprising altered expression of at least one nucleic acid molecule encoding a secreted growth factor, at least one nucleic acid molecule encoding a cytokine, and at least one nucleic acid molecule encoding a chemokine; and
- (iii) a third response group comprising altered expression of at least one nucleic acid molecule encoding an actin-binding protein, at least one nucleic acid molecule encoding a desmosomal protein, and at least one nucleic acid molecule encoding a tubulin protein; and
 - (b) a substrate suitable for binding the nucleic acid molecules.

Claim 61. (Original) The composition of Claim 60, wherein

- (a) the first response group consists of a plurality of nucleic acid molecules at least 90% identical to the group of polynucleotides consisting of:
- (i) M62831 Human transcription factor ETR101 mRNA, complete cds,
- (ii) X68277 H. sapiens CL 100 mRNA for protein tyrosine phosphatase,
- (iii) L04731 H. sapiens translocation T(4:11) of ALL-1 gene to chromosome 4,
- (iv) X56681 Human junD mRNA,
- (v) U20734 Human transcription factor junB (junB) gene, 5' region and complete cds,

(vi) L38951 H. sapiens importin beta subunit mRNA, complete cds,

1:7

- (vii) D87071 Human mRNA for KIAA0233 gene, complete cds,
- (viii) M72885 Human GOS2 gene, 5' flank and cds,
- (ix) M92843 H. sapiens zinc finger transcriptional regulator mRNA, complete cds,
- (x) S81914 IEX-1=radiation-inducible immediate-early gene [human, placenta, mRNA Partial,
- (xi) U72649 Human BTG2 (BTG2) mRNA, complete cds,
- (xii) D86988 Human mRNA for KIAA0221 gene, complete cds,
- (xiii) L19779 H. sapiens histone H2A.2 mRNA, complete cds,
- (xiv) U62317 Chromosome 22q13 BAC Clone CIT987SK-384D8 complete sequence,
- (xv) X04412 Human mRNA for plasma gelsolin,
- (xvi) L27706 Human chaperonin protein (Tcp20) gene complete cds,
- (xvii) X61123 Human BTG1 mRNA,
- (xviii) M60974growth arrest and DNA-damage-inducible protein (gadd45) mRNA, complete cds,
- (xix) L19437 Human transaldolase mRNA containing transposable element, complete cds,
- (xx) X57985 H. sapiens genes for histones H2B.1 and H2A,
- (xxi) D90086 Human pyruvate dehydrogenase (EC 1.2.4.1) beta subunit gene, exons 1-10,
- (xxii) M34182 Human testis-specific protein kinase gamma-subunit mRNA, complete cds,
- (xxiii) L16862 H. sapiens G protein-coupled receptor kinase (GRK6) mRNA, complete cds,
- (xxiv) D13705 Human mRNA for fatty acids omega-hydroxylase (cytochrome P-450HKV), complete cd,
- (xxv) U37122 Human adducin gamma subunit mRNA, complete cds,
- (xxvi) D45906 H. sapiens mRNA for LIMK-2, complete cds,
- (xxvii) U07664 Human HB9 homeobox gene, exons 2 and 3 and complete cds,
- (xxviii) D87438 Human mRNA for KIAA0251 gene, partial cds,
- (xxix) L37042 H. sapiens casein kinase I alpha isoform (CSNK1A1) mRNA, complete cds,
- (xxx) D14043 Human mRNA for MGC-24, complete cds,
- (xxxi) D13988 Human rab GDI mRNA, complete cds,
- (xxxii) U28480 Uncoupling Protein Uc,
- (xxxiii) D50840 H. sapiens mRNA for ceramide glucosyltransferase, complete cds,
- (xxxiv) M55265 Human casein kinase II alpha subunit mRNA, complete cds,

- (xxxv) M96803 Human general beta-spectrin (SPTBN1) mRNA, complete cds,
- (xxxvi) U89336 Human HLA class III region containing NOTCH4 gene, partial sequence, homeobox P.
- (xxxvii) D87442 Human mRNA for KIAA0253 gene, partial cds,
- (xxxviii) J03161 Human serum response factor (SRF) mRNA, complete cds,
- (xxxix) D86965 Human mRNA for KIAA0210 gene, complete cds,
- (xl) U17327 Human neuronal nitric oxide synthase (NOS1) mRNA, complete cds,
- (xli) D86966 Human mRNA for KIAA0211 gene, complete cds,
- (xlii) D85527 H. sapiens mRNA for LIM domain, partial cds,
- (xliii) U42031 Human 54 kDa progesterone receptor-associated immunophilin FKBP54 mRNA, partial,
- (xliv) X59434 Human rohu mRNA for rhodanese,
- (xlv) M13929 Human c-myc-P64 mRNA, initiating from promoter P0, (HLmyc2.5) partial cds, and
- (xlvi) J05211 Desmoplakin;
- (b) the second response group consists of a plurality of nucleic acid molecules at least 90% identical to the group of polynucleotides consisting of:
- (i) M57731 Human gro-beta mRNA, complete cds,
- (ii) S81914 IEX-1=radiation-inducible immediate-early gene [human, placenta, mRNA Partial, 1,
- (iii) Y00787 Human mRNA for MDNCF (monocyte-derived neutrophil chemotactic factor),
- (iv) X54489 Human gene for melanoma growth stimulatory activity (MGSA),
- (v) M72885 Human GOS2 gene, 5' flank and cds,
- (vi) M62831 Human transcription factor ETR101 mRNA, complete cds,
- (vii) M28130 Human interleukin 8 (IL8) gene, complete cds,
- (viii) X57985 H. sapiens genes for histones H2B.1 and H2A,
- (ix) X53800 Human mRNA for macrophage inflammatory protein-2beta (MIP2beta),
- (x) L19779 H. sapiens histone H2A.2 mRNA, complete cds,
- (xi) AF001294 H. sapiens IPL (IPL) mRNA, complete cds,
- (xii) X56681 Human junD mRNA,

- (xiii) S75762 Oncogene Tls/Chop, Fusion Activate,
- (xiv) M84739 Human autoantigen calreticulin mRNA, complete cds,
- (xv) M21302 Human small proline rich protein (sprII) mRNA, clone 174N,
- (xvi) V00599 Tubulin, Bet,
- (xvii) X70326 Macmarck,
- (xviii) D10923 Human mRNA for HM74,
- (xix) D64142 Human mRNA for histone H1x, complete cds,
- (xx) D86974 Human mRNA for KIAA0220 gene, partial cds,
- (xxi) M60974 Human growth arrest and DNA-damage-inducible protein (gadd45) mRNA, complete cds,
- (xxii) X68277 H. sapiens CL 100 mRNA for protein tyrosine phosphatase,
- (xxiii) L13391 Human helix-loop-helix basic phosphoprotein (G0S8) gene, complete cds,
- (xxiv) M31627 Human X box binding protein-1 (XBP-1) mRNA, complete cds,
- (xxv) U40369 Human spermidine/spermine N1-acetyltransferase (SSAT) gene, complete cds,
- (xxvi) X52560 Nuclear Factor Nf-II,
- (xxvii) X61123 Human BTG1 mRNA,
- (xxviii) U20734 Human transcription factor junB (junB) gene, 5' region and complete cds,
- (xxix) U35048 Human TSC-22 protein mRNA, complete cds,
- (xxx) M69043 H. sapiens MAD-3 mRNA encoding IkB-like activity, complete cds,
- (xxxi) X51345 Human jun-B mRNA for JUN-B protein,
- (xxxii) S68616 Na+/H+ exchanger NHE-1 isoform [human, heart, mRNA, 4516 nt],
- (xxxiii) X89750 H. sapiens mRNA for TGIF protein,
- (xxxiv) X69111 H. sapiens HLH 1R21 mRNA for helix-loop-helix protein,
- (xxxv) U14603 Human protein-tyrosine phosphatase (HU-PP-1) mRNA, partial sequence,
- (xxxvi) X52541 Human mRNA for early growth response protein 1 (hEGR1),
- (xxxvii) D50683 H. sapiens mRNA for TGF-betaIIR alpha, complete cds,
- (xxxviii) M92843 H. sapiens zinc finger transcriptional regulator mRNA, complete cds,
- (xxxix) X91247 H. sapiens mRNA for thioredoxin reductase,
- (xl) U05875 Human clone pSK1 interferon gamma receptor accessory factor-1 (AF-1) mRNA, comp,
- (xli) L19314 Human HRY gene, complete cds,

- (xlii) M30703 Human amphiregulin (AR) gene, exon 6, clones lambda-ARH(6,12),
- (xliii) U34252 Human gamma-aminobutyraldehyde dehydrogenase mRNA, complete cds, (xliv) S78825 Id1,
- (xlv) D85429 H. sapiens gene for heat shock protein 40, complete cds,

, y 1

- (xlvi) U41766 Human metalloprotease/disintegrin/cysteine-rich protein precursor (MDC9) mRNA,
- (xlvii) U89336 Human HLA class III region containing NOTCH4 gene, partial sequence, homeobox PB,
- (xlviii) M69181 Human nonmuscle myosin heavy chain-B (MYH10) mRNA, partial cds,
- (xlix) D15050 Human mRNA for transcription factor AREB6, complete cds,
- (1) U28386 Human nuclear localization sequence receptor hSRP1alpha mRNA, complete cds,
- (li) L77886 Human protein tyrosine phosphatase mRNA, complete cds,
- (lii) X64330 H. sapiens mRNA for ATP-citrate lyase,
- (liii) U37122 Human adducin gamma subunit mRNA, complete cds,
- (liv) X74008 H. sapiens mRNA for protein phosphatase 1 gamma,
- (lv) U60205 Human methyl sterol oxidase (ERG25) mRNA, complete cds,
- (Ivi) X76534 H. sapiens NMB mRNA,
- (lvii) D87071 Human mRNA for KIAA0233 gene, complete cds,
- (lviii) U90716 Human cell surface protein HCAR mRNA, complete cds,
- (lix) M91083 Human DNA-binding protein (HRC1) mRNA, complete cds,
- (lx) U29607 Human methionine aminopeptidase mRNA, complete cds,
- (lxi) M76482 Human 130-kD pemphigus vulgaris antigen mRNA, complete cds,
- (lxii) U72066 H. sapiens CtBP interacting protein CtIP (CtIP) mRNA, complete cds,
- (lxiii) K03195 Human (HepG2) glucose transporter gene mRNA, complete cds,
- (lxiv) X12953 Human rab2 mRNA, YPT1-related and member of ras family,
- (lxv) M60483 Human protein phosphatase 2A catalytic subunit-alpha gene, complete cds,
- (lxvi) U72649 Human BTG2 (BTG2) mRNA, complete cds,
- (lxvii) D14520 Human mRNA for GC-Box binding protein BTEB2, complete cds,
- (lxviii) L08069 Human heat shock protein, E. coli DnaJ homologue mRNA, complete cds,
- (lxix) D50840 H. sapiens mRNA for ceramide glucosyltransferase, complete cds,
- (lxx) L31801 H. sapiens monocarboxylate transporter 1 (SLC16A1) mRNA, complete cds,

- (lxxi) S74017 Nrf2=NF-E2-like basic leucine zipper transcriptional activator [human, hemin-in,
- (lxxii) X87241 H. sapiens mRNA for hFat protein,
- (lxxiii) X52425 Human IL-4-R mRNA for the interleukin 4 receptor,
- (lxxiv) D79994 Human mRNA for KIAA0172 gene, partial cds,
- (lxxv) M58286 H. sapiens tumor necrosis factor receptor mRNA, complete cds,
- (lxxvi) M13829 Human putative raf related protein (pks/a-raf) mRNA, partial cds,
- (Ixxvii) X78992 H. sapiens ERF-2 mRNA,
- (lxxviii) U42031 Human 54 kDa progesterone receptor-associated immunophilin FKBP54 mRNA, partial,
- (lixix) U88629 Human RNA polymerase II elongation factor ELL2, complete cds,
- (lxxx) X52611 Human mRNA for transcription factor AP-2,
- (lxxxi) U28749 Human high-mobility group phosphoprotein isoform I-C (HMGIC) mRNA, complete cds,
- (lxxxii) L00058 Human (GH) germline c-myc proto-oncogene, exon 3 and 3' flank,
- (lxxxiii) L26336 Heat Shock Protein, 70 Kda (Gb: Y00371,
- (lxxxiv) L08246 Human myeloid cell differentiation protein (MCL1) mRNA,
- (lxxxv) S73591 brain-expressed HHCPA78 homolog [human, HL-60 acute promyelocytic,leukemia cells
- (lxxxvi) J05211 Desmoplakin,
- (lxxxvii) L00352 Human low density lipoprotein receptor gene, exon 18,
- (lxxxviii) Y13647 Stearoyl-Coenzymea Desaturase,
- (lxxxix) X77794 H. sapiens mRNA for cyclin G1,
- (xc) M90656 Human gamma-glutamylcysteine synthetase (GCS) mRNA, complete cds,
- (xci) M13929 Human c-myc-P64 mRNA, initiating from promoter P0, (HLmyc2.5) partial cds,
- (xcii) D78129 H. sapiens mRNA for squalene epoxidase, partial cds,
- (xciii) X80692 H. sapiens ERK3 mRNA, and
- (xciv) J00120 Proto-Oncogene C-Myc, Alt. Splice 3, Orf 114; and
- (c) the third response group consists of a plurality of nucleic acid molecules at least 90% identical to the group of polynucleotides consisting of:
- (i) M20030 Human small proline rich protein (sprII) mRNA, clone 930,

- (ii) X53065,
- (iii) M13903 Human involucrin gene, exon 2,
- (iv) M22918 Myosin, Light Chain, Alkali, Smooth Muscle (Gb:U02629), Non-Muscle, Alt. Splice,
- (v) L10343 Huma elafin gene, complete cds,
- (vi) M63573 Human secreted cyclophilin-like protein (SCYLP) mRNA, complete cds,
- (vii) M21302 Human small proline rich protein (sprII) mRNA, clone 174N,
- (viii) Y00787 Human mRNA for MDNCF (monocyte-derived neutrophil chemotactic factor),
- (ix) X57985 H. sapiens genes for histones H2B.1 and H2A,
- (x) L05188 H. sapiens small proline-rich protein 2 (SPRR2B) gene, complete cds,
- (xi) X70326 Macmarcks,
- (xii) X67325 H. sapiens p27 mRNA,
- (xiii) L19779 H. sapiens histone H2A.2 mRNA, complete cds,
- (xiv) S81914 IEX-1=radiation-inducible immediate-early gene [human, placenta, mRNA Partial, 1.
- (xv) D45248 Human mRNA for proteasome activator hPA28 subunit beta, complete cds,
- (xvi) Z22548 H. sapiens thiol-specific antioxidant protein mRNA,
- (xvii) M22918 Myosin, Light Chain, Alkali, Smooth Muscle (Gb:U02629), Non-Muscle, Alt. Splice,
- (xviii) X06956 Tubulin, Alpha 1, Isoform 44,
- (xix) V00594 Human mRNA for metallothionein from cadmium-treated cells,
- (xx) M80254 H. sapiens cyclophilin isoform (hCyP3) mRNA, complete cds,
- (xxi) U04636 Human cyclooxygenase-2 (hCox-2) gene, complete cds,
- (xxii) Z14244 H. sapiens coxVIIb mRNA for cytochrome c oxidase subunit VIIb,
- (xxiii) X99920 H. sapiens mRNA for S100 calcium-binding protein A13,
- (xxiv) U62800 Human cystatin M (CST6) mRNA, complete cds,
- (xxv) L08069 Human heat shock protein, E. coli DnaJ homologue mRNA, complete cds,
- (xxvi) L20688 Human GDP-dissociation inhibitor protein (Ly-GDI) mRNA, complete cds,
- (xxvii) M13755 Human interferon-induced 17-kDa/15-kDa protein mRNA, complete cds,
- (xxviii) M60278 Human heparin-binding EGF-like growth factor mRNA, complete cds,
- (xxix) AF001294 H. sapiens IPL (IPL) mRNA, complete cds,

- (xxx) X54489 Human gene for melanoma growth stimulatory activity (MGSA),
- (xxxi) M21186 Human neutrophil cytochrome b light chain p22 phagocyte b-cytochrome mRNA, compl,
- (xxxii) D42040 Human mRNA for KIAA9001 gene, complete cds,

1. 1

- (xxxiii) V00599 Tubulin, Beta,
- (xxxiv) U37690 Human RNA polymerase II subunit (hsRPB10) mRNA, complete cds,
- (xxxv) M21005 Human migration inhibitory factor-related protein 8 (MRP8) gene, complete cds,
- (xxxvi) M37583 Human histone (H2A.Z) mRNA, complete cds,
- (xxxvii) Z49989 H. sapiens mRNA for smoothelin,
- (xxxviii) L24564 Human Rad mRNA, complete cds,
- (xxxix) D49824 Human HLA-B null allele mRNA,
- (xl) M59465 Human tumor necrosis factor alpha inducible protein A20 mRNA, complete cds,
- (xli) S54005 thymosin beta-10 [human, metastatic melanoma cell line, mRNA, 453 nt],
- (xlii) Z49254 H. sapiens L23-related mRNA,
- (xliii) M22919 Myosin, Light Chain, Alkali, Smooth Muscle (Gb:U02629), Smooth Muscle, Alt. Spli,
- (xliv) U70660 Human copper transport protein HAH1 (HAH1) mRNA, complete cds,
- (xlv) AF006084 H. sapiens Arp2/3 protein complex subunit p41-Arc (ARC41) mRNA, complete cds,
- (xlvi) X62083 H. sapiens mRNA for Drosophila female sterile homeotic (FSH) homologue,
- (xlvii) D86974 Human mRNA for KIAA0220 gene, partial cds,
- (xlviii) M72885 Human GOS2 gene, 5' flank and cds,
- (xlix) S80437 fatty acid synthase {3' region} [human, breast and HepG2 cells, mRNA Partial, 22,
- (1) X04654 Human mRNA for U1 RNA-associated 70K protein,
- (li) t M26311 Human cystic fibrosis antigen mRNA, complete cds,
- (lii) X14850 Human H2A.X mRNA encoding histone H2A.X,
- (liii) M14328 Human alpha enolase mRNA, complete cds,
- (liv) U07919 Human aldehyde dehydrogenase 6 mRNA, complete cds,
- (lv) M28130 Human interleukin 8 (IL8) gene, complete cds,
- (lvi) Z21507 H. sapiens EF-1delta gene encoding human elongation factor-1-delta,

(lvii) M92934 Human connective tissue growth factor, complete cds,

)

- (Iviii) M27436 Human tissue factor gene, complete cds, with a Alu repetitive sequence in the 3',
- (lix) X74874 H. sapiens gene for RNA pol II largest subunit, exon 1,
- (lx) X57351 Human 1-8D gene from interferon-inducible gene family,
- (lxi) X52979 Human gene for small nuclear ribonucleoproteins SmB and SmB',
- (lxii) U41515 Human deleted in split hand/split foot 1 (DSS1) mRNA, complete cds,
- (lxiii) D28235 Human PTGS2 gene for prostaglandin endoperoxide synthase-2, complete cds,
- (lxiv) Y00503 Human mRNA for keratin 19.
- (lxv) M57731 Human gro-beta mRNA, complete cds,
- (lxvi) D50840 H. sapiens mRNA for ceramide glucosyltransferase, complete cds,
- (lxvii) U52101 Human YMP mRNA, complete cds.
- (lxviii) D13413 Human mRNA for tumor-associated 120 kDa nuclear protein p120, partial cds(carbox,
- (lxix) LA2379 H. sapiens bone-derived growth factor (BPGF-1) mRNA, complete cds,
- (lxx) X52426 H. sapiens mRNA for cytokeratin 13,
- (lxxi) J04456 Human 14 kd lectin mRNA, complete cds,
- (lxxii) S78771 NAT=CpG island-associated gene [human, mRNA, 1741 nt],
- (lxxiii) M26730 Human mitochondrial ubiquinone-binding protein (QP) gene, exon 4,
- (lxxiv) U26727 Human p16INK4/MTS1 mRNA, complete cds,
- (lxxv) X92896 H. sapiens mRNA for ITBA2 protein,
- (lxxvi) Z69043 H. sapiens mRNA translocon-associated protein delta subunit precursor,
- (lxxvii) L76568 H. sapiens excision and cross link repair protein (ERCC4) gene, complete genom,
- (lxxviii) M12125 Human fibroblast muscle-type tropomyosin mRNA, complete cds,
- (lxxix) U09937 Human urokinase-type plasminogen receptor, exon 7,
- (lxxx) X15822 Human COX VIIa-L mRNA for liver-specific cytochrome c oxidase (EC 1.9.3.1.),
- (lxxxi) M34516 Human omega light chain protein 14.1 (Ig lambda chain related) gene, exon 3,
- (lxxxii) U53830 H. sapiens interferon regulatory factor 7A mRNA, complete cds,
- (Ixxxiii) X82693 H. sapiens mRNA for E48 antigen,
- (lxxxiv) M58026 Human NB-1 mRNA, complete cds,

- (lxxxv) M90657 Human tumor antigen (L6) mRNA, complete cds,
- (lxxxvi) X57579 H. sapiens activin beta-A subunit (exon 2),
- (lxxxvii) D38251 Human mRNA for RPB5 (XAP4), complete cds,
- (lxxxviii) D89667 H. sapiens mRNA for c-myc binding protein, complete cds,
- (lxxxix) AB000584 H. sapiens mRNA for TGF-beta superfamily protein, complete cds,
- (xc) L76200 Human guanylate kinase (GUK1) mRNA, complete cds,
- (xci) J04794 Human aldehyde reductase mRNA, complete cds,
- (xcii) X52882 Human t-complex polypeptide 1 gene,
- (xciii) M79463 Human PML-2 mRNA, complete CDS,
- (xciv) Y09022 H. sapiens mRNA for Not56-like protein,
- (xcv) M12529 Human apolipoprotein E mRNA, complete cds,
- (xcvi) X71129 H. sapiens mRNA for electron transfer flavoprotein beta subunit,
- (xcvii) X83416 H. sapiens PrP gene, exon 2,
- (xcviii) D89052 H. sapiens mRNA for proton-ATPase-like protein, complete cds,
- (xcix) M60974 Human growth arrest and DNA-damage-inducible protein (gadd45) mRNA, complete cds,
- (c) M16364 Human creatine kinase-B mRNA, complete cds,
- (ci) D38305 Human mRNA for Tob, complete cds,
- (cii) X87679 Major Histocompatibility Complex, Class I, E (Gb:M21533),
- (ciii) Z29505 H. sapiens mRNA for nucleic acid binding protein sub2.3,
- (civ) K02574,
- (cv) U09813 Human mitochondrial ATP synthase subunit 9, P3 gene copy, mRNA, nuclear gene enc,
- (cvi) X67951 H. sapiens mRNA for proliferation-associated gene (pag),
- (cvii) J04611 Human lupus p70 (Ku) autoantigen protein mRNA, complete cds,
- (cviii) U09578 H. sapiens MAPKAP kinase (3pK) mRNA, complete cds,
- (cix) X53800 Human mRNA for macrophage inflammatory protein-2beta (MIP2beta),
- (cx) V00599 Tubulin, Beta 2,
- (cxi) U69126 Human FUSE binding protein 2 (FBP2) mRNA, partial cds,
- (cxii) X53416 Human mRNA for actin-binding protein (filamin) (ABP-280),
- (cxiii) U90546 Human butyrophilin (BTF4) mRNA, complete cds,

- (cxiv) M58459 Human ribosomal protein (RPS4Y) isoform mRNA, complete cds,
- (cxv) M19961 Human cytochrome c oxidase subunit Vb (coxVb) mRNA, complete cds,
- (cxvi) U65579 Human mitochondrial NADH dehydrogenase-ubiquinone Fe-S protein 8, 23 kDa subunit,
- (cxvii) X77794 H. sapiens mRNA for cyclin G1,
- (cxviii) M29064 Human hnRNP B1 protein mRNA,
- (cxix) D21853 Human mRNA for KIAA0111 gene, complete cds,
- (cxx) X78687 H. sapiens G9 gene encoding sialidase,
- (cxxi) X15729 Human mRNA for nuclear p68 protein,
- (cxxii) X04828 Human mRNA for G(i) protein alpha-subunit (adenylate cyclase inhibiting GTP-bind,
- (cxxiii) L27943 H. sapiens cytidine deaminase (CDA) mRNA, complete cds,
- (cxxiv) L40391 H. sapiens (clone s153) mRNA fragment,
- (cxxv) D42123 H. sapiens mRNA for ESP1/CRP2, complete cds,
- (cxxvi) X74104 H. sapiens mRNA for TRAP beta subunit,
- (cxxvii) M84332 Human ADP-ribosylation factor 1 gene, exons 2-5,
- (cxxviii) L37127 H. sapiens RNA polymerase II mRNA, complete cds,
- (cxxix) M92843 H. sapiens zinc finger transcriptional regulator mRNA, complete cds,
- (cxxx) U07664 Human HB9 homeobox gene, exons 2 and 3 and complete cds,
- (cxxxi) L48546 H. sapiens tuberin (TSC2) gene, exons 38, 39, 40 and 41,
- (cxxxii) X53586 Human mRNA for integrin alpha 6,
- (cxxxiii) t D21852 Human mRNA for KIAA0029 gene, partial cds,
- (cxxxiv) L11066 Human mRNA sequence,
- (cxxxv) J04444 Human cytochrome c-1 gene, complete cds,
- (cxxxvi) M95787 Human 22kDa smooth muscle protein (SM22) mRNA, complete cds,
- (cxxxvii) L07517 Mucin 6, Gastric (Gb:L07517),
- (cxxxviii) X91247 H. sapiens mRNA for thioredoxin reductase,
- (cxxxix) L11672 Human Kruppel related zinc finger protein (HTF10) mRNA, complete cds,
- (cxl) U30999 Human (memc) mRNA, 3'UTR,
- (cxli) U01337 Human Ser/Thr protein kinase (A-RAF-1) gene, complete cds,
- (cxlii) U28480 Uncoupling Protein Ucp,

- (cxliii) X12794 Human v-erbA related ear-2 gene,
- (cxliv) L22005 Human ubiquitin conjugating enzyme mRNA, partial cds,

: :

- (cxlv) M12886 Human T-cell receptor active beta-chain mRNA, complete cds,
- (cxlvi) Y08915 H. sapiens mRNA for alpha 4 protein,
- (cxlvii) M24547 Amyloid Beta (A4) Precursor Protein, Alt. Splice 2, A4(751),
- (cxlviii) X76717 H. sapiens MT-11 mRNA,
- (cxlix) M64347 Human novel growth factor receptor mRNA, 3' cds,
- (cl) X05409 Human RNA for mitochondrial aldehyde dehydrogenase I ALDH I (EC 1.2.1.3),
- (cli) D87469 Human mRNA for KIAA0279 gene, partial cds,
- (clii) M58603 Human nuclear factor kappa-B DNA binding subunit (NF-kappa-B) mRNA, complete cds,
- (cliii) M76482 Human 130-kD pemphigus vulgaris antigen mRNA, complete cds,
- (cliv) X06323 Human MRL3 mRNA for ribosomal protein L3 homologue (MRL3 = mammalian ribosome L,
- (clv) X78992 H. sapiens ERF-2 mRNA,
- (clvi) LA1351 H. sapiens prostasin mRNA, complete cds,
- (clvii) X75342 H. sapiens SHB mRNA,
- (clviii) U83115 Human non-lens beta gamma-crystallin like protein (AIM1) mRNA, partial cds,
- (clix) U88629 Human RNA polymerase II elongation factor ELL2, complete cds,
- (clx) S78825 Id1,
- (clxi) U28811 Human cysteine-rich fibroblast growth factor receptor (CFR-1) mRNA, complete cds,
- (clxii) M58286 H. sapiens tumor necrosis factor receptor mRNA, complete cds,
- (clxiii) D78129 H. sapiens mRNA for squalene epoxidase, partial cds,
- (clxiv) D14874 H. sapiens mRNA for adrenomedullin precursor, complete cds,
- (clxv) Z26317 H. sapiens mRNA for desmoglein 2,
- (clxvi) L19267 H. sapiens 59 protein mRNA, 3' end,
- (clxvii) J00120 Proto-Oncogene C-Myc, Alt. Splice 3, Orf 114,
- (clxviii) U33821 Human tax1-binding protein TXBP151 mRNA, complete cds,
- (clxix) U52100 Human XMP mRNA, complete cds,
- (clxx) L31801 H. sapiens monocarboxylate transporter 1 (SLC16A1) mRNA, complete cds,

- (clxxi) L00058 Human (GH) germline c-myc proto-oncogene, exon 3 and 3' flank,
- (clxxii) U52426 H. sapiens GOK (STIM1) mRNA, complete cds,
- (clxxiii) M80244 Human E16 mRNA, complete cds,
- (clxxiv) U56418 Human lysophosphatidic acid acyltransferase-beta mRNA, complete cds,
- (clxxv) L38490 H. sapiens ADP-ribosylation factor mRNA, complete cds,
- (clxxvi) U14603 Human protein-tyrosine phosphatase (HU-PP-1) mRNA, partial sequence,
- (clxxvii) L77886 Human protein tyrosine phosphatase mRNA, complete cds,
- (clxxviii) M38258 Human retinoic acid receptor gamma 1 mRNA, complete cds,
- (clxxix) X89750 H. sapiens mRNA for TGIF protein,
- (clxxx) D85429 H. sapiens gene for heat shock protein 40, complete cds,
- (clxxxi) J05211 Desmoplakin I,
- (clxxxii) M31627 Human X box binding protein-1 (XBP-1) mRNA, complete cds,
- (clxxxiii) X80695 H. sapiens OXA1Hs mRNA,
- (clxxxiv) M54915 Human h-pim-1 protein (h-pim-1) mRNA, complete cds,
- (clxxxv) D83777 Human mRNA for KIAA0193 gene, complete cds,
- (clxxxvi) D31883 Human mRNA for KIAA0059 gene, complete cds,
- (clxxxvii) U00968 Human SREBP-1 mRNA, complete cds,
- (clxxxviii) K03195 Human (HepG2) glucose transporter gene mRNA, complete cds,
- (clxxxix) D86965 Human mRNA for KIAA0210 gene, complete cds,
- (cxc) Z30643 H. sapiens mRNA for chloride channel (putative) 2139bp,
- (exci) D14520 Human mRNA for GC-Box binding protein BTEB2, complete cds,
- (cxcii) D87462 Human mRNA for KIAA0272 gene, partial cds,
- (cxciii) X80692 H. sapiens ERK3 mRNA,
- (exciv) X90858 H. sapiens mRNA for uridine phosphorylase,
- (cxcv) M57763 Human ADP-ribosylation factor (hARF6) mRNA, complete cds,
- (cxcvi) X92720 H. sapiens mRNA for phosphoenolpyruvate carboxykinase,
- (exevii) M81601 Human transcription elongation factor (SII) mRNA, complete cds,
- (exeviii) X52611 Human mRNA for transcription factor AP-2,
- (cxcix) U09587 Human glycyl-tRNA synthetase mRNA, complete cds,
- (cc) U14550 Human sialyltransferase SThM (sthm) mRNA, complete cds,
- (cci) D90209 Human mRNA for DNA binding protein TAXREB67,

- (ccii) X77366 H. sapiens HBZ17 mRNA,
- (cciii) X76534 H. sapiens NMB mRNA,
- (cciv) U37519 Human aldehyde dehydrogenase (ALDH8) mRNA, complete cds,
- (ccv) M83667 Human NF-IL6-beta protein mRNA, complete cds,
- (ccvi) U53347 Human neutral amino acid transporter B mRNA, complete cds,
- (ccvii) L09229 Human long-chain acyl-coenzyme A synthetase (FACL1) mRNA, complete cds,
- (ccviii) S73591 brain-expressed HHCPA78 homolog [human, HL-60 acute promyelocytic leukemia cells,
- (ccix) M13929 Human c-myc-P64 mRNA, initiating from promoter P0, (HLmyc2.5) partial cds,
- (ccx) M55268 Human casein kinase II alpha' subunit mRNA, complete cds,
- (ccxi) M77836 Human pyrroline 5-carboxylate reductase mRNA, complete cds,
- (ccxii) HG2724-HT2820_at S75762 Oncogene Tls/Chop, Fusion Activated,
- (ccxiii) U72066 H. sapiens CtBP interacting protein CtIP (CtIP) mRNA, complete cds,
- (ccxiv) U42031 Human 54 kDa progesterone receptor-associated immunophilin FKBP54 mRNA, partial,
- (ccxv) M27396 Human asparagine synthetase mRNA, complete cds,
- (ccxvi) X01630 Human mRNA for argininosuccinate synthetase,
- (ccxvii) D32050 Human mRNA for alanyl-tRNA synthetase, complete cds,
- (ccxviii) M90656 Human gamma-glutamylcysteine synthetase (GCS) mRNA, complete cds,
- (ccxix) J04102 Human erythroblastosis virus oncogene homolog 2 (ets-2) mRNA, complete cds, and
- (ccxx) X69111 H. sapiens HLH 1R21 mRNA for helix-loop-helix protein.
- Claim 62. (Original) The composition of Claim 60, wherein the selected nucleic acid molecules have a length of 12 plus N bases, wherein N is a whole integer from 0 to 500.
- Claim 63. (Original) The composition of matter of Claim 62, wherein the selected nucleic acid molecules are about 21 bases in length.
- Claim 64. (Original) The composition of matter of Claim 60 further characterized as an expression array.

Claims 65-97. (Cancelled)